

SGID: 2009 Restructuring Plans for ArcSDE 9.3

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AGRC plans to have a new ArcSDE 9.3 database server available by the end of January, 2009. From the time it goes into production mode, this server will contain the most current version of all vector GIS data in the public portion of the State Geographic Information Database.

Several big changes are planned that will affect all users of SGID data layers through an ArcSDE database connection. In addition, the restructuring of the SGID will have an impact on how the file-based vector data on the ftp download site is organized.

First, AGRC will be removing the feature datasets that have been used primarily for data layer categorization.

Second, the user names that were used to designate source scale (U024, U100, etc) will be removed. In general, we plan to archive some of the older, coarse scale data but when it's still relevant the coarser scale data will carry a scale designation in the feature class name.

Third, AGRC is seriously considering adopting the 19 topic categories defined by the ISO 19111 geographic information standard (see summary list below). This will mean that all vector data in the SGID will be organized according to these topic categories. Where appropriate, prefixes will be added to names to group similar datasets together when listed alphabetically.

Just a few examples:

- OLD: SGID.U024.Administration.Municipalities --> NEW: SGID.Boundaries.Municipalities
- OLD: SGID.U024.Administration.LandOwnership --> NEW: SGID.PlanningCadastre.LandOwnership
- OLD: SGID.U024.Administration.ZipCodes --> NEW: SGID.Location.Postal_ZipCodes
- OLD: SGID.U024.Administration.SalesTaxAreas --> NEW: SGID.Economy.Revenue_SalesTaxArea
- OLD: SGID.U024.Energy.DNROilGasWells --> NEW: SGID.Economy.Energy_DOGMOilGasWells
- OLD: SGID.U024.Geology.Faultlines --> NEW: SGID.Geoscientific.FaultLines
- OLD: SGID.U024.Hydrology.StreamsNHDHighRes --> NEW: SGID.InlandWaters.StreamsNHDHighRes
- OLD: SGID.U024.Reference.PLSSSections_GCDB --> NEW: SGID.PlanningCadastre.PLSS_SectionsGCDB
- OLD: SGID.U024.Transportation.StatewideStreets --> NEW: SGID.Transportation.Roads_StatewideStreets
- OLD: SGID.U024.Wilderness.BLM98WildernessReinventory --> NEW: SGID.Environment.Wilderness_BLM98Reinventory

These look like big changes and they are. The reasoning is as follows:

- the pesky feature datasets need to go as they severely hinder AGRC's ability to keep data updated
- everyone is going to have to repoint their existing layers due to the feature dataset removal anyway, so we might as well try to make any structural changes on the horizon so we only have to do this once
- adopting the ISO standard will make the SGID organizational structure more compliant and usable to a wider audience. Like any big change, this will take some time for familiarization. As the plan for the ArcGIS 9.3 conversion matures, AGRC will publish details on the Utah GIS Portal. In addition, resources such as a conversion reference table and possibly a VBA script to automate the repointing of ArcMap layers to the new 9.3 feature classes, will be made available. AGRC is planning to keep the existing 9.2 server in production, using its existing structure, for approximately 6 months after the 9.3 server comes online.

If you have feedback or suggestions regarding the upcoming ArcSDE 9.3 server upgrade and the restructuring and renaming of existing feature classes, please email bgranberg@utah.gov.

ISO 19111 Topic Category	Summary Name	Code	Description
farming	001	rearing of animals and/or cultivation of plants	Examples: agriculture, irrigation, aquaculture, plantations, herding, pests and diseases affecting crops and livestock
biota	002	flora and/or fauna in natural environment	Examples: wildlife, vegetation, biological sciences, ecology, wilderness, sea life, wetlands, habitat, biological resources
boundaries	003	legal land descriptions	Examples: political and administrative boundaries, governmental units, marine boundaries, voting districts, school districts, international boundaries
climatology	004	MeteorologyAtmosphere processes and phenomena of the atmosphere	Examples: cloud cover, weather, climate, atmospheric conditions, climate change, precipitation
economy	005	economic activities, conditions, and employment	

Examples: production, labor, revenue, business, commerce, industry, tourism and ecotourism, forestry, fisheries, commercial or subsistence hunting, exploration and exploitation of resources such as minerals, oil and gas elevation 006 height above or below seal level

Examples: altitude, bathymetry, digital elevation models, slope, derived products, DEMs, TINs environment 007 environmental resources, protection and conservation

Examples: environmental pollution, waste storage and treatment, environmental impact assessment, monitoring environmental risk, nature reserves, landscape, water quality, air quality, environmental modeling geoscientificInformation 008 information pertaining to earth sciences

Examples: geophysical features and processes, geology, minerals, sciences dealing with the composition, structure and origin of the earth's rocks, risks of earthquakes, volcanic activity, landslides, gravity information, soils, permafrost, hydrogeology, groundwater, erosion health 009 health, health services, human ecology, and safety

Examples: disease and illness, factors affecting health, hygiene, substance abuse, mental and physical health, health services, health care providers, public health imageryBaseMapsEarthCover 010 base maps

Examples: land/earth cover, topographic maps, imagery, unclassified images, annotations, digital ortho imagery intelligenceMilitary 011 military bases, structures, activities

Examples: barracks, training grounds, military transportation, information collection inlandWaters 012 inland water features, drainage systems and characteristics

Examples: rivers and glaciers, salt lakes, water utilization plans, dams, currents, floods and flood hazards, water quality, hydrographic charts, watersheds, wetlands, hydrography location 013 positional information and services

Examples: addresses, geodetic networks, geodetic control points, postal zones and services, place names, geographic names oceans 014 features and characteristics of salt water bodies (excluding inland waters)

Examples: tides, tidal waves, coastal information, reefs, maritime, outer continental shelf submerged lands, shoreline planningCadastre 015 information used for appropriate actions for future use of the land

Examples: land use maps, zoning maps, cadastral surveys, land ownership, parcels, easements, tax maps, federal land ownership status, public land conveyance records society 016 characteristics of society and culture

Examples: settlements, housing, anthropology, archaeology, education, traditional beliefs, manners and customs, demographic data, tourism, recreational areas and activities, parks, recreational trails, historical sites, cultural resources, social impact assessments, crime and justice, law enforcement, census information, immigration, ethnicity structure 017 man-made construction

Examples: buildings, museums, churches, factories, housing, monuments, shops, towers, building footprints, architectural and structural plans transportation 018 means and aids for conveying persons and/or goods

Examples: roads, airports/airstrips, shipping routes, tunnels nautical charts, vehicle or vessel location, aeronautical charts, railways utilitiesCommunication 019 energy, water and waste systems and communications infrastructure and services

Examples: hydroelectricity, geothermal, solar and nuclear sources of energy, water purification and distribution, sewage collection and disposal, electricity and gas distribution, data communication, telecommunication, radio, communication networks